



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/622,657

07/18/2003

Antonio Bovo

7368 US

3846

30078 7590 11/21/2006

MATTHEW D. RABDAU  
TEKTRONIX, INC.  
14150 S.W. KARL BRAUN DRIVE  
P.O. BOX 500 (50-LAW)  
BEAVERTON, OR 97077-0001

EXAMINER

GEE, JASON KAI YIN

ART UNIT

PAPER NUMBER

2134

DATE MAILED: 11/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/622,657	<b>Applicant(s)</b> BOVO ET AL.	
	<b>Examiner</b> Jason K. Gee	<b>Art Unit</b> 2134	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 18 July 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>07/18/2003</u> . | 6) <input type="checkbox"/> Other: _____  |

***DETAILED ACTION***

1. This action is response to communication: filed on 07/18/2003 with acknowledgement of priority date of 07/19/2003.
2. Claims 1-14 are currently pending in this application. Claims 1 and 8 are independent claims.
3. The IDS received 07/18/2003 has been accepted.

***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:  
  
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
5. Claims 3 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claims 3 and 10, the claim recites "and from each packet data unit as the sequence number of the packet data units." This limitation is unclear, as there seems to be no action involved.

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2134

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-4, 6, 7, 8-11, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takagi US Patent Application Publication 2001/0047474 (hereinafter '474), and in view of Malek US Patent No. 4,920,567 (hereinafter '567).

As per claim 1, '474 teaches a system for communication monitoring in a mobile radio network comprising: a processing device coupled to multiple links in the mobile radio network (Figure 1, processing device gateway 401, 402, 403), the processing device (i) determining from data transferred via the multiple links current deciphering parameters (paragraph 18 and 74); (ii) deciphering the data using the current deciphering parameters to produce deciphered data (paragraph 18 and 90); a deciphering parameter providing device (paragraph 98) coupled to the processing device, in which the current deciphering parameters are filed by the processing device to be available for another processing device upon request (paragraph 101, 102); a deciphered data providing device coupled to the processing device for providing the deciphered data at an output (paragraph 91 and 92 radio output unit 1408). The processing device and the deciphering parameter providing device are distributed over different locations and are coupled together by a communication link, as can be seen in Figure 1.

However, at the time of the invention, '474 does not explicitly teach an output device separated from a gateway/processing device which is connected by a

Art Unit: 2134

communication link. Malek '567 teaches this though, in Figure 2, where remote interface forwards manipulated data to a PSTN (connected by a communication link) which forwards it to a gateway. This also teaches that the data sent from remote interface 206 may be decrypted (col. 7 lines 55-65).

At the time of the invention, it would have been obvious to one of ordinary skill in the art to combine the teachings of '474 with '567, as they are both directed toward secure communication in a mobile radio network. One of ordinary skill in the art would have been motivated to separate the output unit from the deciphering unit as to allow physical components to be more specialized, so as to be only dedicated to one process.

As per claim 2, the claim recites wherein the communication link comprises one selected form the group consisting of a local area network and a wide area network. '474 teaches that the processor is connected to the deciphering parameter providing device through a network. The combination with '567 would teach that a output device would be connected in a similar manner. It would be inherent that if a communication link coupling devices together uses a network, (such as is taught in '474), it would be picked from a LAN and a WAN, as these two categories comprise all networks.

As per claim 3, '474 teaches wherein the processing means deciphers data on first ones of the multiple links using an additional deciphering parameter extracted from the data (paragraph 89 teaches that the packet deciphers data using a key and also an algorithm, which is extracted from the data); the data being in the form of packet data units (paragraph 89), the additional deciphering parameter being a set of parameters obtained from a subscriber data base entity (paragraphs 48-57), from the data flow of

Art Unit: 2134

the connection (paragraph 89, Figure 1), and from each packet data unit as the sequence number of the packet data units (paragraph 89, where it teaches the packet has selector values; also paragraph 49-50).

As per claim 4, '567 teaches wherein the data includes both unciphered and ciphered data (col. 7 lines 50-65) and the processing device comprises: means for deciphering the ciphered data according to the current deciphering parameters (paragraph 90 of '474; col. 7 lines 55-65 in '567); and means for combining the unciphered data and the deciphered ciphered data to produce an ordered data flow as the deciphered data ('567 col. 7 lines 55-66).

As per claim 6, '474 teaches wherein the processing device comprises a memory coupled to the deciphering parameter providing device for storing deciphering parameters provided by the deciphering parameter providing device (paragraph 82).

As per claim 7, '474 teaches wherein the processing device comprises a plurality of processors operating in parallel with the deciphering parameter providing device and deciphered data providing device, the number of processors being sufficient to cover all the multiple links at a server switching entity (Figure 1, with plurality of processing devices 401, 402, and 403).

Claims 8, 9, 10, 11, 13, and 14 are rejected using the same basis of arguments used to reject claims 1, 2, 3, 4, 6, and 7, respectively.

Art Unit: 2134

8. Claims 5 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over '474 and '567 as applied above, and further in view of Low et al. US Patent No. 6,959,346 (hereinafter '346).

As per claim 5, the '474 combination does not explicitly teach delaying unciphered data while the deciphering means deciphers the ciphered data so the deciphered data is in the ordered data flow with the unciphered data. However, Low '346 teaches this in col. 6 lines 37-57, wherein information that is not decrypted remains and waits in the combiner, and the signal is combined with deciphered data once it is determined that the two sets of data correspond to each other.

At the time of the invention, it would have been obvious to combine the teachings of '346 with the '474 combination. One of ordinary skill in the art would have been motivated to perform such an addition to provide flexibility to the system, as taught in col. 3 lines 53-56 of '346.

Claim 12 is rejected using the same basis of arguments used to reject claim 5 above.

### ***Conclusion***

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason K. Gee whose telephone number is (571) 272-6431. The examiner can normally be reached on M-F, 7:00 am to 4:30 pm.

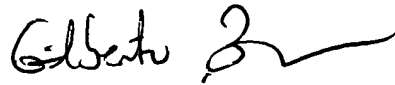
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on (571) 272-6962. The fax phone

Art Unit: 2134

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jason Gee  
Patent Examiner  
Technology Center 2134  
11/16/2006

  
GILBERTO BARRON JR.  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100